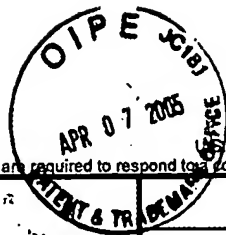


Please type a plus sign (+) inside this box → ☐



PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO			Complete If Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	10/664,755	
			Filing Date	17 September 2003	
			First Named Inventor	Kuo-Ching Liu	
			Group Art Unit	2818	
			Examiner Name	Phuc T. Dang	
Sheet	1	of	2	Attorney Docket Number	NWAV 1002-2

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	A1					
	A2					
	A3					
	A4					
	A5					
	A6					
	A7					
	A8					
	A9					
	A10					
	A11					
	A12					
	A13					
	A14					
	A15					
	A16					
	A17					
	A18					
	A19					
	A20					

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
PD	B1	JP	2001-170786		Hitachi Cable Ltd.	06/26/2001		✓
	B2							
	B3							
	B4							
	B5							
	B6							
	B7							
	B8							
	B9							
	B10							

Examiner Signature	PHUC T. DANG	Date Considered	4/21/2005
--------------------	--------------	-----------------	-----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box →

PTO/SB/08B (08-00)
Approved for use through 10/31/2002 OMB 0651-0031

U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Complete if Known		
			Application Number	10/664,755	
			Filing Date	17 September 2003	
			First Named Inventor	Kuo-Ching Liu	
			Group Art Unit	2818	
			Examiner Name	Phuc T. Dang	
Sheet	2	of	2	Attorney Docket Number	NWAV 1002-2

[illegible]

Examiner Signature	PHUC T. DANG	Date Considered	4/21/2005
-----------------------	--------------	--------------------	-----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → ☐

Approved for use through 10/31/2002. OMB 0851-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO			C complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number		
			Filing Date	Herewith	
			First Named Inventor	Kuo-Ching Liu	
			Group Art Unit		
			Examiner Name		
Sheet	2	of	3	Attorney Docket Number	NWAV 1002-2

U.S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
PD	A21	5,811,751		Leong et al.	09-22-1998	
	A22	5,961,852		Rafia-Yuan et al.	10-05-1999	
	A23	5,963,364		Leong et al.	10-05-1999	
	A24	5,987,920		Bosman et al.	11-23-1999	
	A25	5,994,205		Yamamoto et al.	11-30-1999	
	A26	6,057,525		Chang et al.	05-02-2000	
	A27	6,107,162		Morita et al.	08-22-2000	
	A28	6,121,118		Jim et al.	09-19-2000	
	A29	6,126,520		Jochim-Schmidt et al.	10-03-2000	
	A30	6,130,401		Yoo et al.	10-10-2000	
	A31	6,182,733		McReynolds	02-06-2001	
	A32	6,365,429		Kneissl et al.	04-02-2002	
	A33	6,413,839		Brown et al.	07-02-2002	
	A34	6,509,546		Egitto et al.	01-21-2003	
	A35	2002/0031899		Manor	03-14-2002	
PD	A36	Re. 33,947		Shinohara	06-02-1992	
	A37					
	A38					
	A39					
	A40					

FOREIGN PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office ³	Number ³			
PD	B11		JP 58044738	Toshiba Corp	03-15-1983	
PD	B12		JP 58044739	Toshiba Corp	03-15-1983	
PD	B13		JP 58068946	Toshiba Corp	04-25-1983	
	B14					
	B15					
	B16					
	B17					
	B18					
	B19					
	B20					

Examiner Signature	PHUC T. DANG	Date Considered	1/4/05
--------------------	--------------	-----------------	--------

¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

² Unique citation designation number. ³ See attached Kinds of U.S. Patent Documents. ⁴ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁵ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. ⁷ Applicant is to place a check mark here if English language Translation is attached.

Burdan Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → ☐

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0851-0051

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number		
			Filing Date	Herewith	
			First Named Inventor	Kuo-Ching Lju	
			Group Art Unit	2818	
			Examiner Name	P. DANG	
Sheet	1	of	3	Attorney Docket Number	NWAV 1002-2

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
PD	A1	3,626,141		Daly	12-07-1971	
	A2	3,814,895		Fredriksen	06-04-1974	
	A3	3,816,700		Weiner et al.	06-11-1974	
	A4	4,237,601		Woolhouse et al.	12-09-1980	
	A5	4,336,439		Sasnett et al.	06-22-1982	
	A6	4,543,464		Takeuchi	09-24-1985	
	A7	4,562,333		Taub et al.	12-31-1985	
	A8	4,664,739		Aurichio	05-12-1987	
	A9	4,906,011		Hiyamizu et al.	03-06-1990	
	A10	4,921,564		Moore	05-01-1990	
	A11	5,057,664		Johnson et al.	10-15-1991	
	A12	5,138,131		Nishikawa et al.	08-11-1992	
	A13	5,324,012		Aoyama et al.	06-28-1994	
	A14	5,387,776		Preiser	02-07-1995	
	A15	5,611,946		Leong et al.	03-18-1997	
	A16	5,626,777		Hugi et al.	05-06-1997	
	A17	5,627,109		Sassa et al.	05-06-1997	
	A18	5,703,713		Leong et al.	12-30-1997	
	A19	5,801,356		Richman	09-01-1998	
PD	A20	5,809,987		Wark et al.	09-22-1998	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office ³	Number ⁴			
PD	B1		WO 00/75983	Kulicke & Soffa	12-14-2000	
	B2		EP 1137072	Matsushita Electric	09-26-2001	
	B3		JP 10064854	Hewlett Packard	03-06-1998	
	B4		JP 11224866	NGK Insulators	08-17-1999	
	B5		JP 2000004066	Nichia Chem Ind.	01-07-2000	
	B6		JP 2000196186	Fuji Electric Co.	07-14-2000	
	B7		JP 55151351	Mitsubishi Electric	11-23-1980	
	B8		JP 56006451	Mitsubishi Electric	01-23-1981	
	B9		JP 57066650	Toshiba Corp	04-22-1982	
PD	B10		JP 57081985	Toshiba Corp	05-22-1982	

Examiner Signature	PHUL T. DANG	Date Considered	1/4/05
--------------------	--------------	-----------------	--------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.